

EXHIBIT V

FINAL REPORT PRODUCTS LIST

1. Drill System Description (including at least the following)
 - 1.1. Overview of all drill system elements including size and form factor
 - 1.2. Mass lists and power requirements, including at least current best estimate and identification of mass and power growth rationale for margin levels (for the rock types in Exhibit III).
 - 1.3. Functionality
 - 1.4. Level of autonomy
 - 1.5. Heritage assumptions
 - 1.6. Spacecraft functions provided to drill system (e.g. communications, computer, etc.)
 - 1.7. Robustness to off-nominal conditions
 - 1.8. Redundancy, treatment of single point failures
 - 1.9. Operations concept (e.g. commanding frequency, data volumes)
 - 1.10. Time required as a function of depth, in operational hours, for drilling and for sample recovery
2. Technology
 - 2.1. Assumed performance requirements for advanced technology elements and basis of assumptions
 - 2.2. Breakpoints in the technology between different levels of drilling (technology feed forward from one class of capability to the next)
 - 2.3. Fallback options if technology performance is not achieved and impact
 - 2.4. Required technology demonstrations
 - 2.5. Technology development estimated costs to TRL 6.
3. Cost and Schedule for flight drill
 - 3.1. Estimated development cost for a single flight unit of the drill, assuming that all technology is advanced to TRL 6 in a separate budget by the time of the mission's start. Cost estimate should be broken down to the major subsystem level and stated in \$FY05.
 - 3.2. Cost risk, schedule risk, and cost uncertainty. Identify specific areas of uncertainty.
 - 3.3. Basis of cost (nominal and uncertainty) and cost estimating methodology (analogy, parametric, grass-roots are some examples)
 - 3.4. Assumptions for cost estimate